

Abstract:

A short pulse laser arrangement (11) with, preferably, passive mode-locking, comprising a resonator (12) containing a laser crystal (14) and several mirrors (M1-M7; OC), one of which forms a pump beam coupling-in mirror (M1) and one of which forms a laser beam out-coupling mirror (OC), and a multiple reflexion telescope (18) enlarging the resonator length, the resonator (12) in operation having a positive averaged dispersion over a wavelength range concerned; the adjustment of the positive averaged dispersion of the resonator (12) is effected by means of the mirrors (M1-M7, OC) of the resonator (12), at least a few of which are designed as dispersive mirrors.